

# Extreme Weather Instrument Technologies for the Next Earth Science Decadal Survey (PATH)

Completed Technology Project (2013 - 2017)



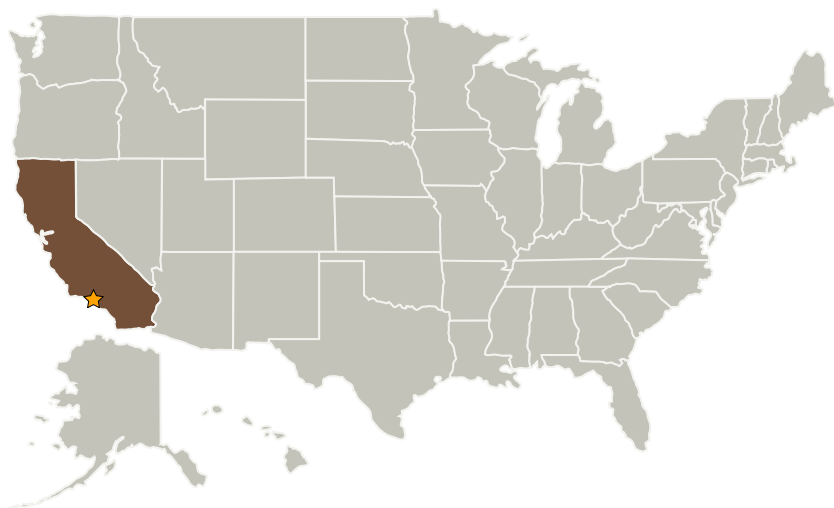
## Project Introduction

Develop technologies necessary for Extreme Weather instruments and missions relevant to the next decadal survey. Develop technologies necessary for Extreme Weather instruments and missions relevant to the next decadal survey. Perform systems study to determine driving requirements. Perform LEO V GEO observation scenario study. Develop 60 GHz antenna technology suitable for LEO or GEO temperature sounding.

## Anticipated Benefits

N/A

## Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Jet Propulsion Laboratory (JPL)	Lead Organization	NASA Center	Pasadena, California

### Primary U.S. Work Locations

California



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## Organizational Responsibility

### Responsible Mission Directorate:

Mission Support Directorate (MSD)

### Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

### Responsible Program:

Center Independent Research & Development: JPL IRAD

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## Project Management

### Program Manager:

Fred Y Hadaegh

### Project Manager:

Jonas Zmuidzinias

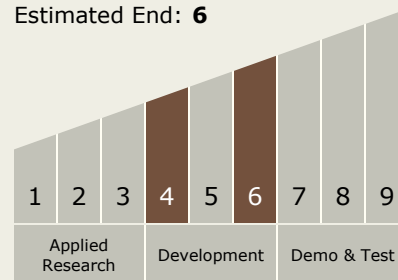
### Principal Investigator:

Todd C Gaier

## Technology Maturity (TRL)

Start: **4**

Estimated End: **6**



## Technology Areas

### Primary:

- TX08 Sensors and Instruments
  - └ TX08.1 Remote Sensing Instruments/Sensors
    - └ TX08.1.4 Microwave, Millimeter-, and Submillimeter-Waves